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Patent

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Newman, Kenneth R.

§ Art Unit: 2855

Serial No: 10/713,568

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Filed : 11/14/2003

§ Examiner: Martir, L.

For: Tubular Monitor
Systems & Methods

§ Atty Docket No: CTES 016

Response to Notice of Non-Compliant Amendment Re:
RESPONSE TO OFFICE ACTION MAILED 12/28/2004

Mail Stop
Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

Dear Sir:

This is a Response to the Notice of Non-Compliant Amendment mailed 2/23/2005 regarding the Response [filed 2/16/2005] to the Office Action mailed 12/28/04. Submitted herewith is a new page with Claim 30 with a correct status identifier. Also submitted herewith is a PTO Form 2038 for paying the amount due - \$250 - for additional claims.

Listing of Claims

1. - 29. (cancelled)

1 30.(new) A system for measuring parameters of a structure, the system
2 comprising

3 a plurality of strain gauges emplaceable on the structure,
4 signal transmission apparatus associated with the plurality of strain
5 gauges for transmitting signals therefrom indicative of measurements by the
6 plurality of strain gauges to computer apparatus for processing signals from the
7 strain gauges,

8 the plurality of strain gauges including at least three strain gauge
9 apparatuses for providing axial strain measurements at each location of one of
10 the at least three strain gauge apparatuses,

11 computer apparatus for receiving signals from the transmitting
12 apparatus indicative of the measurements of the at least three strain gauge
13 apparatuses and for determining, based on said measurements, bending
14 moment of the structure at a location of a plane including the at least three
15 strain gauge apparatuses,

16 temperature measurement apparatus for measuring temperature of
17 the structure at the location of the plurality of strain gauges, and

18 wherein the computer apparatus is programmed to adjust said
19 measurements for temperature changes indicated by the temperature
20 measurement apparatus.

1 31. (new) The system of claim 30 wherein the computer apparatus is
2 programmed to calculate internal pressure of the structure based on strain
3 measurements from the plurality of strain gauges.

1 32. (new) The system of claim 30 wherein the computer apparatus is
2 programmed to calculate bending direction of the structure at said location based on
3 said measurements.

1 33. (new) The system of claim 31 wherein the computer apparatus determines
2 bending moment in real time.

1 34. (new) The system of claim 33 wherein the computer apparatus is
2 programmed to make a plurality of continuous determinations of bending moment in

Early and favorable reconsideration is respectfully requested.

Respectfully submitted,

Date: 2 March 2005

Guy McClung
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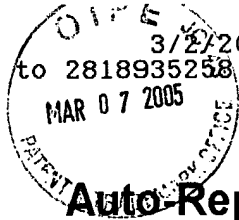
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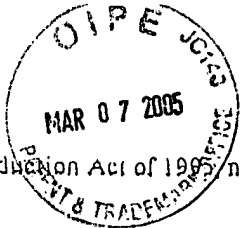
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